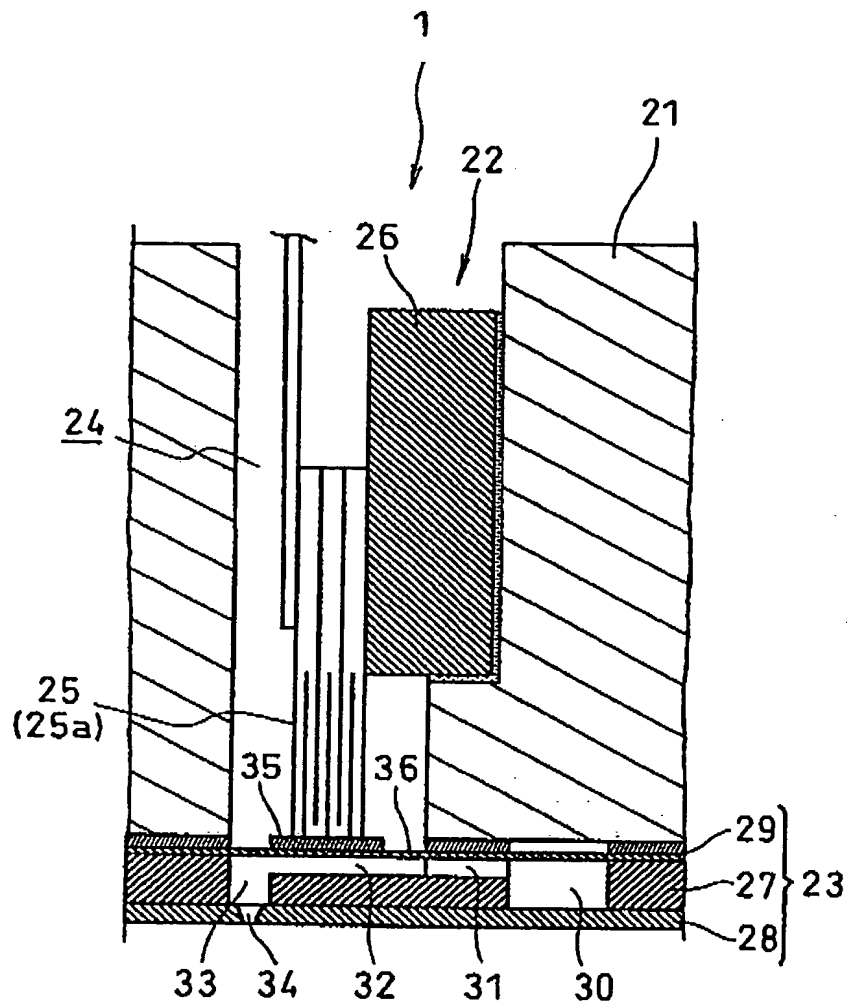


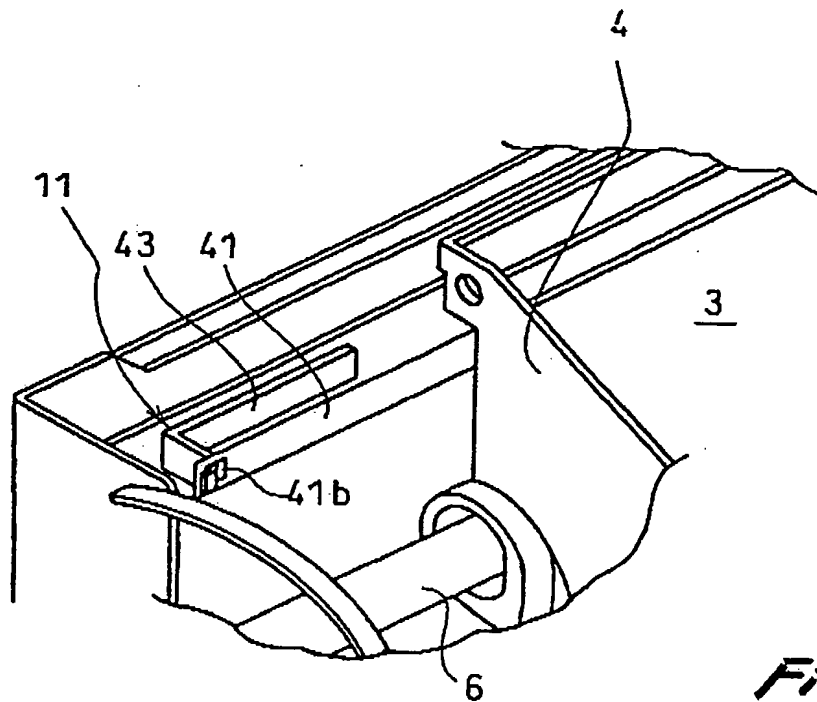
Fig. 1

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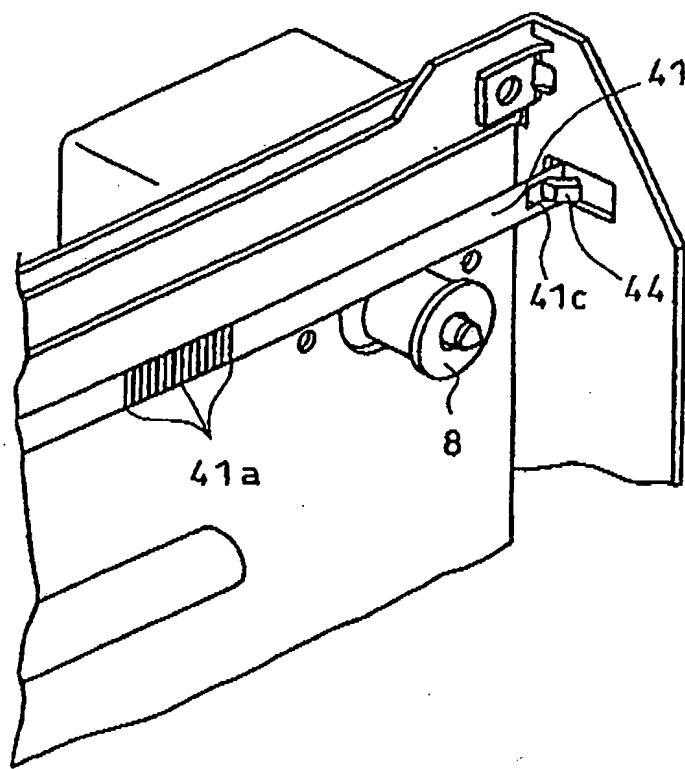
Fig. 2



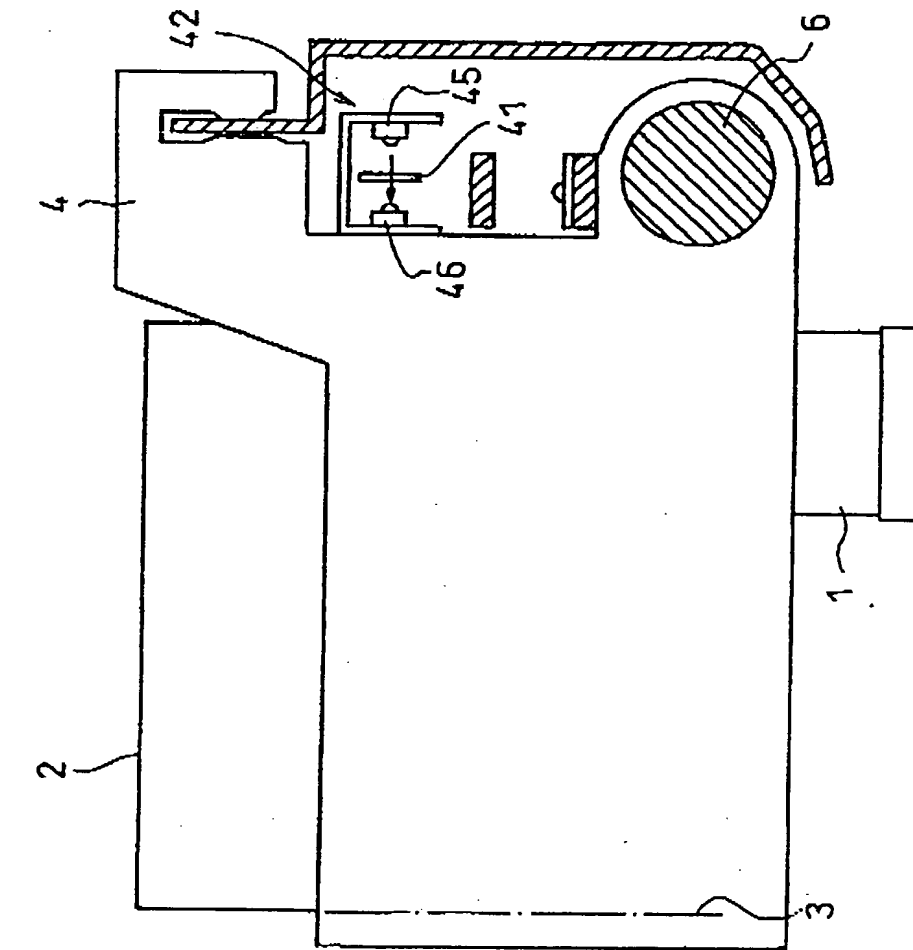
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*Fig. 3*

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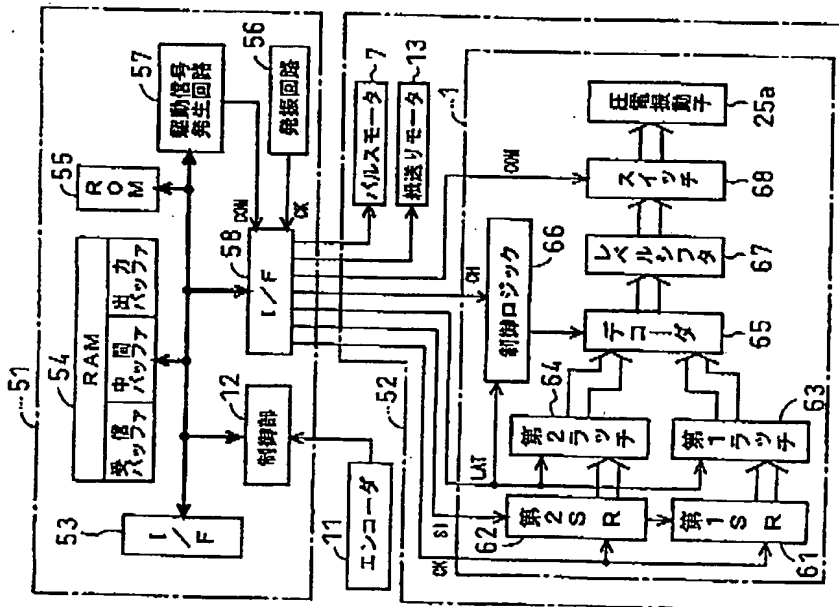
*Fig. 4*

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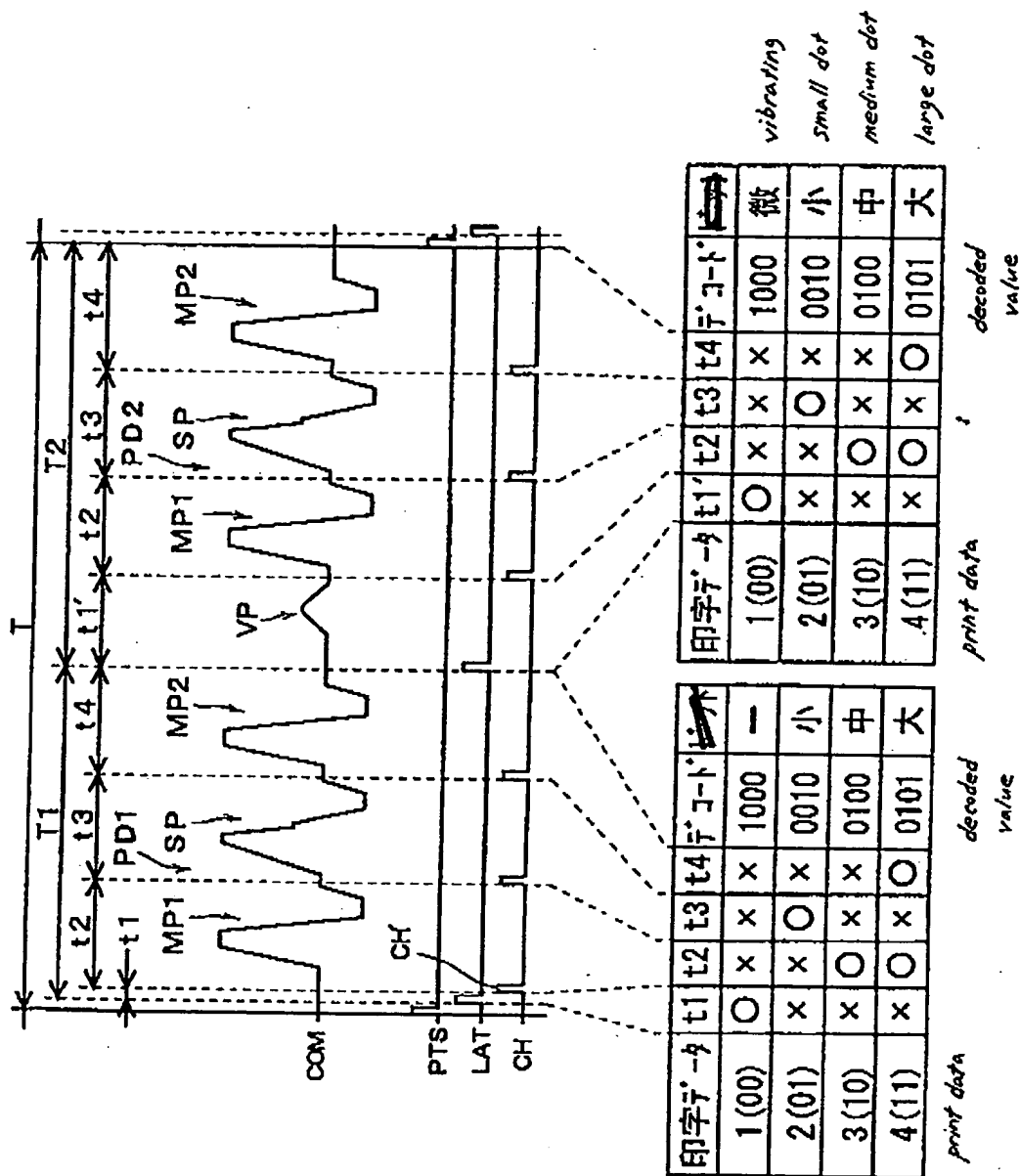
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Fig. 6



- 7: pulse motor
 11: encoder
 12: controller
 13: paper feeding motor
 25a: piezoelectric actuator
 53: external I/F
 54: reception buffer, intermediate buffer, output buffer
 56: oscillator
 57: drive signal generator
 58: Internal I/F
 61: first shift register
 62: second shift register
 63: first latch
 64: second latch
 65: decoder
 66: control logic
 67: level shifter
 68: switcher

Fig. 7



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Fig. 8

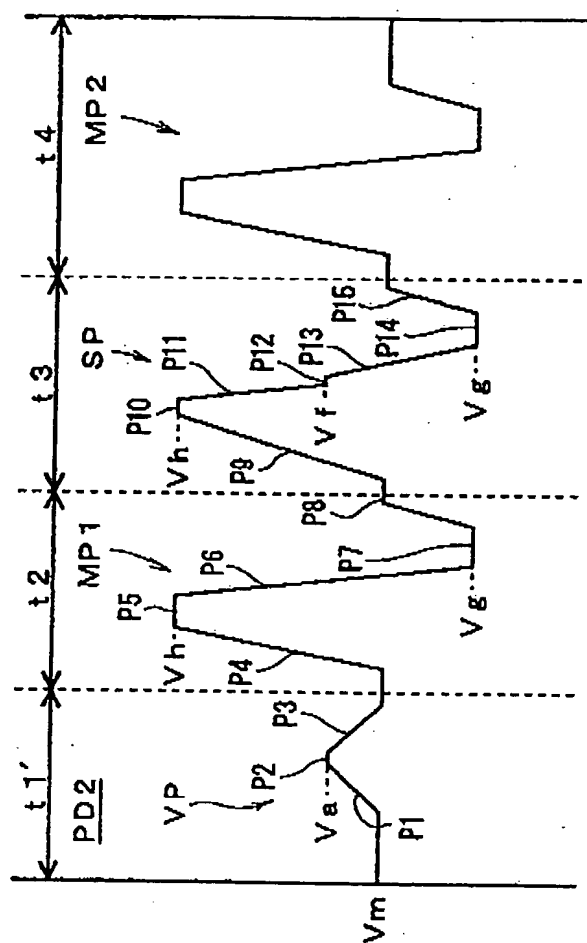
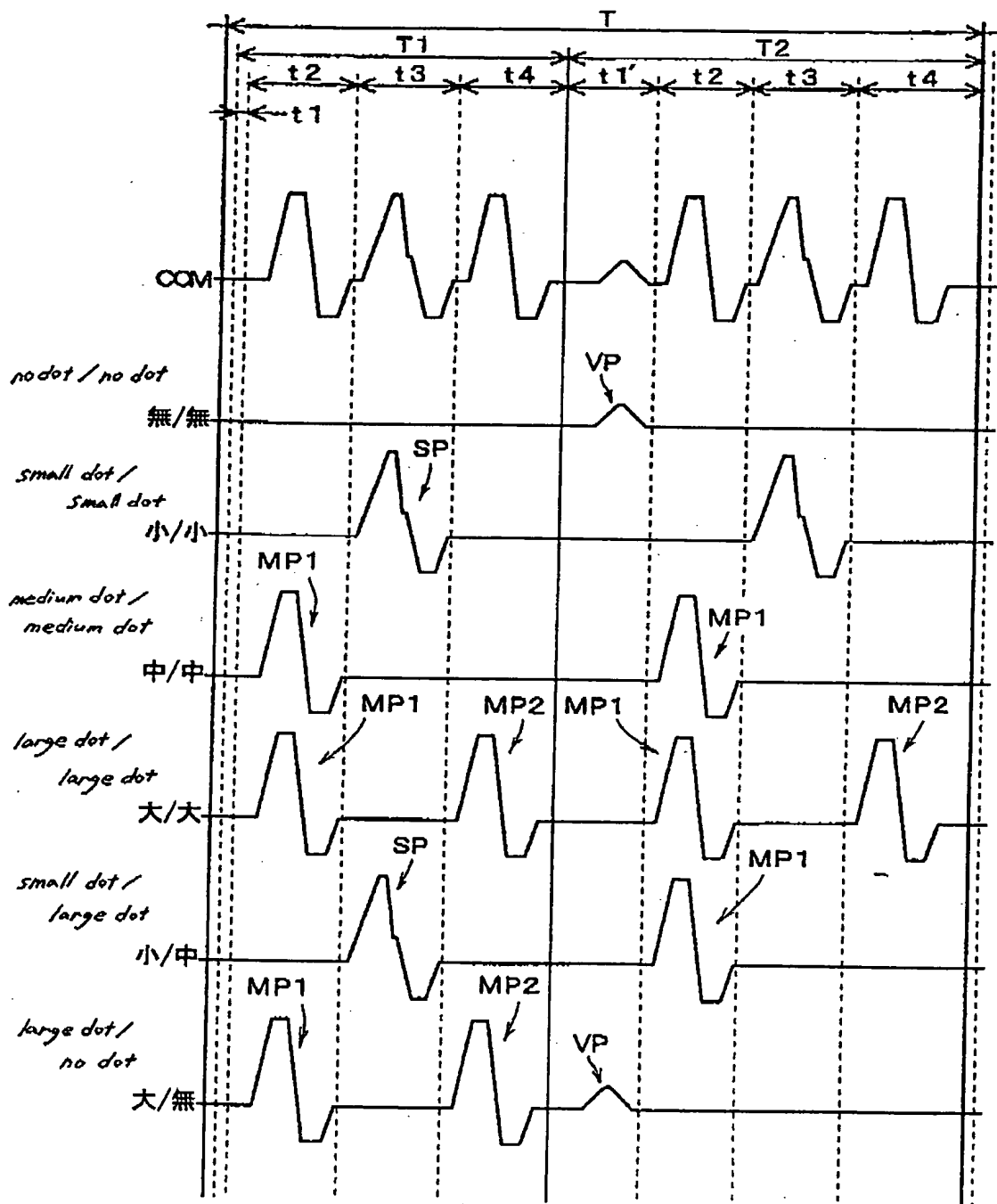


Fig. 9



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Timing diagram for the J21 printer. The diagram shows four time intervals: t_a , t_b , t_c , and t_d . The signals shown are COM, PTS, LAT, and CH. The table below shows the decoded values for each interval.

Interval	Print Data	Decoded Value
t_a	1(00)	微 (Micro)
t_b	2(01)	小 (Small)
t_c	3(10)	中 (Medium)
t_d	4(11)	大 (Large)